



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLRL4-11L-CS1-46-835.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13804
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 1/3/25
[TEST DATE] 12/09/22
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CLRL4-11L-CS1-46-835
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3500
[TESTED]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5187
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3607	3946	4304
55	3975	4431	4933
65	4260	4838	5436
75	4177	4935	5323
85	4202	3902	3552

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	581	581	581	581	581
2.5	594	585	582	578	574
5.0	595	587	584	581	577
7.5	598	589	587	584	581
10.0	599	592	590	588	585
12.5	601	595	594	595	592
15.0	604	598	600	603	601
17.5	606	601	605	612	611
20.0	608	605	612	621	623
22.5	610	608	619	633	636
25.0	612	611	626	643	647
27.5	614	614	632	654	660
30.0	613	616	639	664	672
32.5	612	616	644	673	682
35.0	611	616	647	680	691
37.5	607	615	649	686	697
40.0	601	610	648	688	700
42.5	594	604	645	688	701
45.0	585	597	640	684	698
47.5	573	586	631	677	693
50.0	559	574	619	666	683
52.5	543	558	603	652	669
55.0	523	538	583	633	649
57.5	499	515	561	609	625
60.0	474	489	534	580	598
62.5	444	458	504	548	564
65.0	413	425	469	512	527
67.5	377	389	428	471	482
70.0	336	349	387	419	426
72.5	293	307	343	362	372
75.0	248	262	293	306	316
77.5	204	219	239	252	260
80.0	163	177	188	200	201
82.5	126	134	135	139	137
85.0	84	83	78	74	71
87.5	40	34	25	17	12
90.0	10	8	8	8	6
92.5	59	30	17	18	16
95.0	115	97	65	36	33
97.5	155	155	148	139	134
100.0	192	203	215	243	258
102.5	229	247	273	325	355
105.0	268	289	322	396	437
107.5	310	327	364	457	501
110.0	349	365	403	507	558
112.5	382	397	442	545	599
115.0	409	422	479	573	627
117.5	424	436	503	592	644
120.0	431	444	511	604	650
122.5	434	453	509	609	655
125.0	439	461	506	603	651
127.5	445	465	505	590	633
130.0	450	462	502	570	608
132.5	449	454	491	544	579

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CANDELA TABULATION - (Cont.)

135.0	442	444	474	519	549
137.5	432	437	457	501	518
140.0	421	432	449	487	494
142.5	414	426	443	471	480
145.0	413	416	435	451	466
147.5	414	406	421	436	450
150.0	414	400	408	428	436
152.5	410	399	403	422	425
155.0	404	401	402	413	410
157.5	397	401	401	405	396
160.0	392	398	395	399	390
162.5	392	396	387	394	390
165.0	396	394	382	387	389
167.5	398	393	383	384	385
170.0	398	393	387	385	384
172.5	394	389	387	384	383
175.0	388	384	382	380	378
177.5	384	379	377	375	372
180.0	376	376	376	376	376

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	226.72	N.A.	4.40
0-30	517.45	N.A.	10.00
0-40	924.13	N.A.	17.80
0-60	1939.74	N.A.	37.40
0-80	2702.13	N.A.	52.10
0-90	2793.49	N.A.	53.90
10-90	2737.5	N.A.	52.80
20-40	697.41	N.A.	13.40
20-50	1191.4	N.A.	23.00
40-70	1476.54	N.A.	28.50
60-80	762.40	N.A.	14.70
70-80	301.46	N.A.	5.80
80-90	91.36	N.A.	1.80
90-110	449.94	N.A.	8.70
90-120	936.07	N.A.	18.00
90-130	1407.76	N.A.	27.10
90-150	2057.59	N.A.	39.70
90-180	2393.06	N.A.	46.10
110-180	1943.12	N.A.	37.50
0-180	5186.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.98
10-20	170.73
20-30	290.73
30-40	406.68
40-50	494.00
50-60	521.61
60-70	460.93
70-80	301.46
80-90	91.36
90-100	96.53
100-110	353.41
110-120	486.14
120-130	471.69
130-140	375.77
140-150	274.06
150-160	188.01
160-170	110.74
170-180	36.72

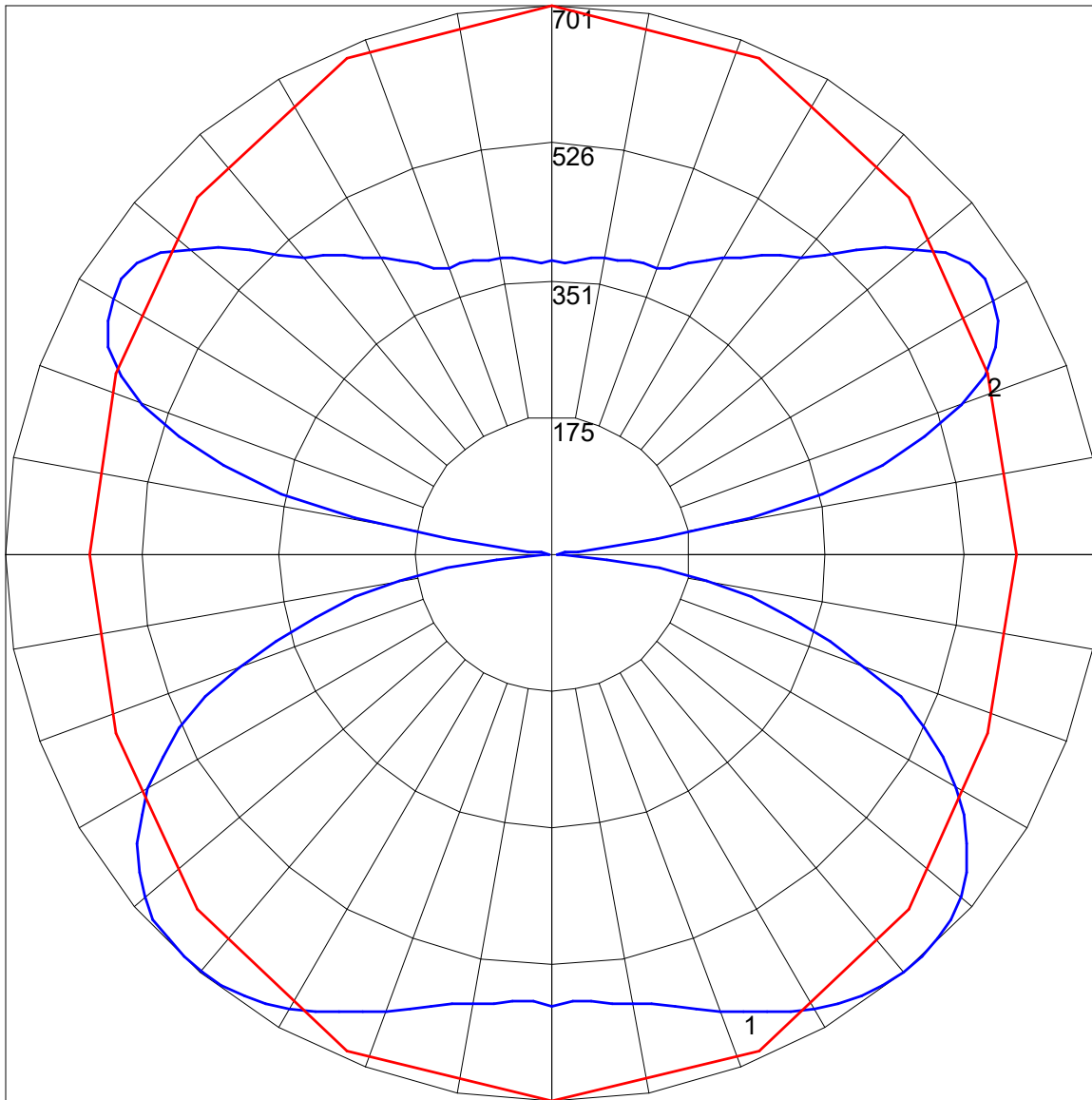
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	97	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48	43
2	88	80	73	67	81	74	68	63	63	58	54	53	49	46	43	41	39	34
3	79	69	61	55	73	64	57	51	54	49	44	46	42	38	38	34	32	28
4	72	60	52	45	66	56	48	42	48	42	37	40	35	32	33	29	26	23
5	66	53	45	38	61	49	42	36	42	36	31	35	31	27	29	25	22	19
6	60	47	39	33	56	44	36	31	38	31	27	32	27	23	26	22	19	16
7	56	43	34	28	51	40	32	26	34	28	23	29	24	20	24	20	17	14
8	51	38	30	25	47	36	28	23	31	25	20	26	21	17	21	18	15	12
9	48	35	27	22	44	32	25	20	28	22	18	24	19	15	20	16	13	11
10	45	32	24	19	41	30	23	18	26	20	16	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 701 Located At Horizontal Angle = 90, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (42.5) (Through Max. Cd.)